Visited 12/14/10





*** Click here to try NOAA's New Solar Calculator

City:		Deg:	Min:	Sec:	<u>Time Zone</u>	
Chicago, IL	<u>Lat</u> : North=+ South=-	41	51	0	Offset to UTC (MST=+7): Dayligh Time:	
Click here for help finding your lat/long coordinates	Long: West=+ East=-	87	39	0	6 No	

Note: To manually enter latitude/longitude, select **Enter Lat/Long ->** from the City pulldown menu, and enter the values in the text boxes to the right.

Month:	Day:	Year (e.g. 2000):
March	27	2006

Calculate Sunrise/Sunset

Equation of Time (minutes):	Solar Declination (degrees):	Apparent Sumrise:	Solar Noon:	Apparent Sunset:	Time Zone
-5.47	2.55	5:42AM	11:56:04	6:11PM	Local
		11:42	17:56:04	0:11 28Mar	UTC

Directions:

1. Select a location from the City pulldown menu, <u>OR</u> select "Enter Lat/Long ->" from the pulldown menu, and manually enter the latitude, longitude and time zone information in the appropriate text boxes. The following sign conventions are used:

1 of 2 12/14/2010 10:37 AM

Visited 12/14/10

Longitude:	Latitude:		
Positive in Western Hemisphere	Positive in Northern Hemisphere		
Negative in Eastern Hemisphere	Negative in Southern Hemisphere		

Latitude and Longitude can be in deg/min/sec, or decimal degrees entered in the "Deg:" field. If you select a city from the pulldown menu, the latitude, longitude and time zone fields will be filled in automatically. If you want to input latitude, longitude or time zone manually, be sure to select "Enter Lat/Long -->" from the City pulldown box, or your numbers will be overwritten by the selected city's location.

- 2. You can enter a different time zone for a location by selecting "Enter Lat/Long -->" in the City pulldown box. Otherwise, the time zone associated with the selected city's Local Standard Time will be automatically entered. Selecting "Yes" in the Daylight Saving field will cause the resulting sunrise, sunset and solar noon times to be adjusted forward one hour. If you are uncertain of the time zone for a location, refer to our <u>Time Zone Table</u>.
- 3. The program retrieves the current date from your computer, and fills the month, day and year fields. To perform calculations for a different date, simply select a month in the pull down menu, and enter the day and four digit year in the appropriate input boxes. When entering a day or year, you will need to click the "Calculate Sunrise/Sunset" button to update the results for this date.
- 4. Once the calculation results are displayed, you may use your web browser's "Print" function to obtain a hardcopy of the results.
- 5. For locations above the Arctic Circle and below the Antarctic Circle, when a sunrise or sunset does not occur on the given day the program locates the local time and date of the most recent sunrise or sunset, and the next sunset or sunrise. When this occurs, the UTC fields will display "prior" or "next" information instead of the UTC times.
- 6. NOTE: For latitudes greater than 72 degrees N and S, calculations are accurate to within 10 minutes. For latitudes less than +/- 72° accuracy is approximately one minute. See <u>Solar Calculation Details</u> for further explanation.

Solar Position Calculator Calculation Details Solar Calculator Links



Time Zone Table Solar Calculator Glossary Back to SRRB Homepage

by <u>Chris Cornwall</u>, Aaron Horiuchi and Chris Lehman Last Updated on 12/14/2010 10:36:27.

2 of 2 12/14/2010 10:37 AM